

Model Number
054214-01114

LOAD WASHER LOAD CELL - M14 FASTENER

Revision: C
ECN #: 53433

	ENGLISH	SI	
Performance			
Measurement Range(Full Scale Capacity)	24,730 lb	110 kN	[1]
Sensitivity(output at rated capacity)	1.50 mV/V	1.50 mV/V	[1][2]
Non-Linearity	± 5 % FS	± 5 % FS	[2]
Hysteresis	± 5 % FS	± 5 % FS	[2]
Non-Repeatability	± 2 % FS	± 2 % FS	[2]
Resonant Frequency	10 kHz	10 kHz	
Environmental			
Overload Limit	37,095 lb	165 kN	
Temperature Range(Operating)	0 to +200 °F	-18 to +93 °C	
Temperature Range(Compensated)	+70 to +170 °F	+21 to +77 °C	
Temperature Effect on Output(Maximum)	± 0.002 %Reading/°F	± 0.0018 %Reading/°C	[3]
Temperature Effect on Zero	± 0.002 %FS/°F	± 0.0018 %FS/°C	[2]
Balance(Maximum)			
Electrical			
Bridge Resistance	350 Ohm	350 Ohm	[1]
Excitation Voltage(Recommended)	10 VDC	10 VDC	[4]
Zero Balance	≤ 1 % FS	≤ 1 % FS	
Output Polarity(Compression)	Positive	Positive	
Isolation Resistance	≥ 1G Ohm	≥ 1G Ohm	
Physical			
Size (Height x Diameter)	0.495 in x 1.213 in	12.57 mm x 30.81 mm	[5]
Fastener Size	NO EQUIV	14.00 mm	
Through Hole Diameter	0.557 in	14.15 mm	
Sensing Element	Strain Gage	Strain Gage	
Electrical Connector	Pigtail Ends	Pigtail Ends	
Electrical Connection Position	Side	Side	

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

- [1]Nominal.
- [2]FS - Full Scale.
- [3]Over compensated operating temperature range.
- [4]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
- [5]See Outline Drawing (LT30776) for Complete Dimensions

SUPPLIED ACCESSORIES:

Model 7122R-007502 8G16B 75K .025% GENER RES 3PPM (1)
 Model 92160-033301 M14 Hardened Washer - Top (1)
 Model 92160-033302 M14 Hardened Washer - Bottom (1)

OPTIONAL ACCESSORIES:

Model 080922-01000 MODEL 922 DIGITAL PEAK METER
 Model 080962-01000 MODEL 962 DATA RECORDER

Entered: ND	Engineer: PE	Sales: DM	Approved: JM	Spec Number:
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All specifications are at room temperature unless otherwise specified.
 In the interest of constant product improvement, we reserve the right to change specifications without notice.



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